

The 2006 - 2007 School Season HATS STEDTRAIN Seed Grants

Proposals Received for Funding

22 proposals, if all accepted, requiring \$20,029 for full funding

School	Project Summary	Teacher - Leader
1. Blossomwood Elementary (Huntsville)	Let's Take Our Classroom Outside These our Walls Funding is sought for an outdoor wildlife observation/reading patio in an outdoor learning complex being constructed by the Jr. Master Gardener Club. It is expected other community groups will also support the construction.	Lynn K. McQueen
2. Brookhaven Middle School (Decatur City)	Film the Future Students from this school are from homes in which their exposures to hands-on technologies are either non-existent or very limited. This project will give students the opportunity to learn to use a digital video camera, use the software Movie Maker, and present materials to an audience.	Johnnie Renick
3. Central Elementary & Middle (Madison County)	Creating Mathematics Super Heros While exploring hands-on visual, auditory, and video modes of learning students will experience real-life math situations. These experiences will enhance their critical thinking skills and provide them with "Mathematical Power" (NTCM 95).	Mary Lee
4. Chaffee Elementary (Huntsville)	Healthy Habits This project will be a joint effort between the teacher of the gifted, the physical education teacher, the school nurse and Huntsville Hospital Wellness Center. The program objective is to combat obesity and to promote healthy life-styles by teaching children about nutrition and exercise.	Colleen Laymon
5. Falkville Elementary (Morgan County)	Family Science Night This event will be an outdoor activity joining reading, science, food and fun! It will promote parent involvement and community support to make reading come alive through science experiments and hands-on activities.	Anna Henderson
6. Farley Elementary (Huntsville)	Can You Hear It Now? Individualized computer instructions along with the EAROBICS software program will promote listening and literacy skills in students. This will better prepare students of diverse ability levels, learning styles and modalities for reading and writing.	Dawn Brown
7 Heritage Elementary (Huntsville)	Observing Aquatic Life, World Wide from Our Classroom Heritage students, having built a saltwater environment in the classroom, will work with same grade Australian students and avid Australian saltwater enthusiasts to learn about the different aspects of saltwater marine life.	Fitzgerald McQueen
8. Highlands Elementary (Huntsville)	How's the Water (Testing)? Students will produce a teaching video (or DV) to instruct and demonstrate how to perform water testing. They will visit a site on Aldridge Creek, Huntsville's source of drinking water and test the water for temperature, pH, turbidity, dissolved oxygen, hardness and alkalinity..	Linda Hardee
9. Huntsville Center for Technology (Huntsville)	Thinking out of the Box Robotics Robotic kits are either too simple or too complex and high cost. In this project off the shelf, sustainable robots will be used, allowing students to learn robotic & microprocessor concepts. Students will complete lessons, then design and build, under a \$60 budget, a robot to compete in a challenge	John Stingel

- 10. Jones Valley Elementary (Huntsville)** Sylvia Dean
Webmaster 101 Students will develop Internet skills as they run the Jones Valley Web Master Club and design teachers' web pages for the school website using Dream Weaver software. Communication skills will be enhanced through collaboration with each teacher/client and advertisers as they promote the school website to the community.
- 11. Madison Cross Roads (Madison County)** Haley James
Science Exploration Via an Amusement Park Adventure An Amusement Park Adventure is an ideal avenue for teaching physical science. Students will participate in a series of lessons that focus on engineering design, forces of motion, and potential & kinetic energy. Furthermore, the content will be extended across all curriculum areas to include literature, writing, mathematics and social studies.
- 12. Montview Elementary (Huntsville)** Jennifer Tate
Extraordinary Experiments Using a hands-on approach, fifth grade students will work through the scientific process with the purpose of discovering the hows and whys of applied science. Experiments meet and/or exceed mandated Alabama Science course of Study Objectives.
- 13. Mountain Gap Middle (Huntsville)** Lynne Schneider
Efficient Lab Lovers Handheld computers that interface with our ACTIVstudio equipment will be purchased for conducting science activities that will enable collaborative recording, transferring, and displaying of data. This technology will increase student time spent doing hands-on activities by reducing the amount of repetitive paperwork.
- 14. New Century Technology High School (Huntsville)** Jane Jones
Walking in a Water Wonderland Students will create a video documentary of local stream organisms and document the changes that occur throughout the year. Students also will complete a website that will include monthly podcasts of our research as well as provide an online identification guide of plants, animals and macro-invertebrates found in this ecosystem.
- 15. New Century Technology High School (Huntsville)** Donna Donnelly
We're "Gellin", DNA Style Science students in Biology, Genetics, and Forensic classes will conduct experiments to better understand the molecular basis of heredity. They will extract DNA from common foods, examine genetic differences using DNA fingerprinting, identify gene mutations using chromatography and restriction enzyme analysis, and conduct advanced forensic studies.
- 16. Oak Park Middle (Decatur)** Martha Fish
International Pen Pals Oak Park Middle is preparing for the International Baccalaureate program. This program encourages students to participate actively and responsibly in a changing and increasingly interrelated world. Oak Park students have been requested to develop, in conjunction with Chez Republic students, a web site. Software will be purchased to accomplish this project.
- 17. Providence K-8 (Madison County)** Katherine Hardiman
GLOBE: Students Helping Scientists Collect Data on Atmospheric Conditions The Global Learning and Observation to Benefit the Environment (GLOBE) program actively involves students in collecting and reporting data to scientists. Students monitor changes that take place in the atmospheric conditions in their local area. This information then is analyzed by scientists to help them learn more about the weather and climate of our planet.
- 18. Riverton Middle (Madison County)** Amanda Stone
Aiming for Success with "Career Targets" The Coin Career technology program helps student to explore careers in all areas including science and technology. It provides students with education and training opportunities to make informed decisions. This program is a technological journey that begins with the connection between careers and curriculum and evolves throughout the life of the student.
- 19. Sparkman High School (Madison County)** Kim Goins
What's Your Signs??? Students in the Medical Profession's program will learn to monitor, interpret and evaluate vital signs for use in the healthcare setting with hospital-grade technology. The Automated Vital Sign Monitor will provide students with real-world training as they learn to measure blood pressure, pulse, pulse oximetry, and temperature.

20. Sparkman High School (Madison County)

Angela Holland, RN

It's A Shocker!! Using the Automated External Defibrillator (AED), Medical Professional students will participate in a hands-on certification course to learn Adult Cardiopulmonary Resuscitation in emergency scenarios. Actar CPR/AED Manikins and AED Trainers will allow students more practice time, leading to increased skill proficiency and confidence.

21. Williams Elementary (Huntsville)

Sue Zupko

Learning Through the Lens Using digital equipment students will document in a variety of ways various class events and projects, one of which involves raising a dog for the disabled. They will creatively use their photographs and videos in presentations and research projects to teach others.

22. Williams Technology Middle (Huntsville)

Leigh Harrison

Build It and They Will Learn! Students led teams using inquiry based learning strategies will construct three desktop computers from parts, format the hard drives with an operating system, and integrate them into an existing school network. Detailed instructions, including schematics and pictures, will be developed and published on a student developed web site.

The 22 above proposals will require \$20,029 for full funding.

Please consider a personal or corporate donation to make these proposed activities a reality. Donations are tax deductible. HATS (Huntsville Association of Technical Societies) is a 501.c(3) non-profit organization.

Make checks payable to HATS-STEDTRAIN
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The HATS-STEDTRAIN Program is now in its eighteenth year (1988 - 2005). Over this period HATS has donated and raised \$166,478 for the program and administered \$9,700 other funds for education.

Total disbursed to benefit North Alabama education: \$176,178